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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,852	09/05/2003	Neville Alleyne	ALLEYN2.001A	7244
20995 KNOBBE MA	7590 05/22/200 RTENS OLSON & BE	EXAMINER		
2040 MAIN ST	TREET	HOFFMAN, MARY C		
FOURTEENTH FLOOR IRVINE, CA 92614			ART UNIT	PAPER NUMBER
ŕ			3733	
			NOTIFICATION DATE	DELIVERY MODE
			05/22/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

jcartee@kmob.com eOAPilot@kmob.com

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		Application No.	Applicant(s)	Applicant(s)			
Office Action Summary		10/655,852		ALLEYNE, NEVILLE			
		Examiner	Art Unit				
		Mary Hoffman	3733				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover she	et with the correspondence ac	idress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 26 Fe	ebruary 2007.					
·		action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4) 🖂	Claim(s) 6-12 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdraw		1.				
	Claim(s) is/are allowed.						
6)🔯	Claim(s) 6-12 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	election requiremen	t.				
Applicati	on Papers						
9)	The specification is objected to by the Examine	r.					
10)🖂	The drawing(s) filed on <u>05 September 2003</u> is/a	ire: a)⊠ accepted o	r b)⊡ objected to by the Exa	miner.			
	Applicant may not request that any objection to the	drawing(s) be held in at	peyance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction	ion is required if the dra	wing(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the atta	iched Office Action or form P	TO-152.			
Priority ι	ınder 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents						
2. Certified copies of the priority documents have been received in Application No.							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* 5	* See the attached detailed Office action for a list of the certified copies not received.						
235 this attached detailed emoc detail for a list of the defined copies not received.							
Attachmen	t(e)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
	B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:						
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Application/Control Number: 10/655,852

Art Unit: 3733

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cauthen (U.S. Patent No. 6,592,623) in view of Trieu (U.S. Patent No. 6,733,531)

Cauthen discloses a method of surgery, the method comprising: resecting a posterior lateral herniation in a spinal disk annulus; forming an opening in the annulus in a posterior lateral location (Column 2, lines 29-57); sealing the opening with a biocompatible seal wherein the seal is positioned to cover the opening (FIGS. 7A-8B, 12B); wherein sealing the opening includes positioning a protruding portion of the seal into the opening (FIG. 8B).

Cauthen discloses the claimed invention except for introducing a bone morphogenic protein into the opening.

Trieu discloses introducing pharmacological agents, such as bone morphogenic protein, into the hydrogel that is then positioned in the annulus in order to repair the annulus fibrosis and nucleus pulposus (col. 15, lines 4-6, lines 49-51).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the method of Cauthen with the step of introducing bone

morphogenic protein into the annulus in view of Trieu in order to repair the annulus fibrosis and nucleus pulposus.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cauthen (U.S. Patent No. 6,592,623) in view of Trieu (U.S. Patent No. 6,733,531) as applied to claims 6-11 above, and further in view of Alleyne (U.S. Patent No. 5,437,672).

Cauthen, as modified, discloses the claimed invention except for the device being prepared in a color different than the viscera and skeletal tissue.

Alleyne discloses that surgical devices may be provided in contrasting colors to differentiate them from the surrounding tissue.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Cauthen, as modified in view of Trieu, with a contrasting color in view of Alleyne, in order to differentiate the device from the surrounding tissue.

Response to Arguments

Applicant's arguments filed 02/26/2007 have been fully considered but they are not persuasive.

Applicant argues that the patch of Cauthen is not combinable with the implant/reinforcing band of Trieu since Cauthen is directed to helping prevent the expulsion of the disk nucleus through the annulus, and the Trieu reference is directed toward replacing the disk nucleus. The examiner respectfully disagrees. The Cauthen reference explicitly states that the stent ref. #10 for sealing the annulus (the

Art Unit: 3733

biocompatible seal of claim 1) is used when it is required to remove all or part of the intervertebral disc nucleus and a hydrogel is injected into the internal cavity of the flexible bladder implant. The Trieu reference states that it is known to introduce pharmacological agents, such as bone morphogenic protein, into hydrogel. Therefore, it would have been have been obvious to one of ordinary skill in the art that the time the invention was made to combine the two references to arrive at the method of claim 1. Moreover, Cauthen states in col. 7, lines 1-4 that the hydrogel is made from natural polymers, and it is well known in the art that natural polymers may contain BMP and other naturally occurring growth factors/proteins.

The rejections are deemed proper.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3733

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary Hoffman whose telephone number is 571-272-5566. The examiner can normally be reached on Monday-Friday 9:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo C. Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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EDUARDOC. ROBERT SUPERVISORY PATENT EXAMINER